

Form PTO-1449  
(Rev. 8-83)U.S. Department of Commerce  
Patent and Trademark Office

Attorney Docket No. 0756-1790

Serial No. Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT**

(Use several sheets if necessary)

Applicant: Toshimitsu KONUNMA et al.

Filing Date: April 14, 1998

Group: 2515

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
DN	3,982,820	9/28/76	Hattori	359	74	—
	4,640,583	2/3/87	Hoshikawa	359	82	—
	4,796,979	1/10/89	Tsuboyama	359	79	—
	4,932,757	6/12/90	Hanyu	359	79	—
	5,083,855	1/28/92	Clark	359	72	—
	5,212,575	5/18/93	Kojima	359	82	—
	5,227,900	7/13/93	Inaba	359	56	—
	5,412,494	5/2/95	Ishiwata	359	67	—
	5,469,281	11/21/95	Katakura	345	97	—
	5,339,306	8/16/94	Yoshenaga	369	275.1	—
PN	5,473,449	12/5/95	Takemura	359	56	—

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

DN		<b>Antiferroelectric Chiral Smectic Phases Responsible for the Tristable Switching in MHPOBC, A.D.L. Chandani, E. Gorecka, Y. Ouchi, H. Takezoe, A. Fukuda, Tokyo Inst. of Tech. 6/12/89. pgs 34-37</b>

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Date Considered

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DN	4,911,958	3/27/90	Mochizuki et al.	359	78	—
	5,189,540	2/23/93	Nakamura et al.	359	78	—
	5,332,521	7/26/94	Yuasa et al.	359	104	—
	5,490,001	11/18/91	Konuma	359	78	—
	5,528,401	7/28/94	Narutaki et al.	359	51	—
	5,530,573	5/23/94	Shimada	359	75	—
	5,327,271	8/16/91	Takeuchi et al.	359	75	—
	5,546,208	2/18/94	Shimizu et al.	359	81	—
DN	5,305,126	11/26/91	Yobayashi et al.	359	81	—

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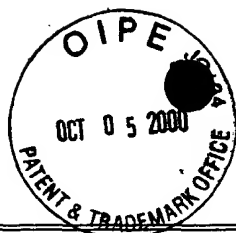

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Applicants: Toshimitsu KONUMA, et al.

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DN	5,270,846	12/14/93	Watanabe et al.	349	138	—
DN	5,354,497	10/11/94	Fukuchi et al.	252	299.01	—
DN	5,389,287	02/14/95	Nishiyama et al.	252	299.01	—
DN	5,473,450	12/05/95	Yamada et al.	349	86	—
DN	5,541,747	07/30/96	Nishi et al.	349	49	—
DN	5,552,913	09/03/96	Shimizu et al.	349	153	—
DN	5,594,569	01/14/97	Konuma et al.	349	122	—
DN	5,638,194	06/10/97	Yamada et al.	349	86	—
DN	5,739,882	04/14/98	Shimizu et al.	349	123	—

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DN	09-211462	08/15/97	Japan	—	—	Abstract	
	88/08552	11/03/88	WIPO	—	—	English	
	02-503360	10/11/90	Japan	—	—	Abstract	
	06-040931	05/31/94	Japan	—	—	Abstract	
	07-013143	01/17/95	Japan	—	—	Abstract	
	06-331948	12/02/94	Japan	—	—	Abstract	
DN	06-214218	08/05/94	Japan	—	—	Abstract	

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DN	Michio Shimizu, et al., "CHARACTERISTIC OF A NOVEL LIQUID CRYSTAL CELL WITH MIXTURE OF FLC AND U.V. CURABLE RESIN," Mol. Cryst. Liq. Cryst. Overseas Publishers Association, Vol. 263, (1995), pp. 585-587.

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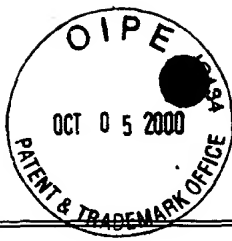
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	06-242409	09/02/94	Japan	-	-	Abstract	
	06-289372	10/18/94	Japan	-	-	Abstract	
	06-301015	10/28/94	Japan	-	-	Abstract	
	06-301039	10/28/94	Japan	-	-	Abstract	
DN	06-337405	12/06/94	Japan	-	-	Abstract	

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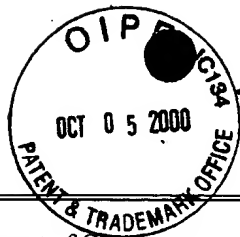
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	06-347807	12/22/94	Japan	-	-	Abstract	
	06-160812	06/07/94	Japan	-	-	Abstract	
	05-045636	02/26/93	Japan	-	-	Abstract	
	05-297364	11/12/93	Japan	-	-	Abstract	
	04-243228	08/31/92	Japan	-	-	Abstract	
DN	04-362918	12/15/92	Japan	-	-	Abstract	

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I	63-198024	08/16/88	Japan	-	-	Abstract	
I	01-055527	03/02/89	Japan	-	-	Abstract	
I	01-120532	05/12/89	Japan	-	-	Abstract	
I	02-137819	05/28/90	Japan	-	-	Abstract	
I	03-223809	10/02/91	Japan	-	-	Abstract	
DN	0 404 575	12/27/90	EPO	-	-	English	

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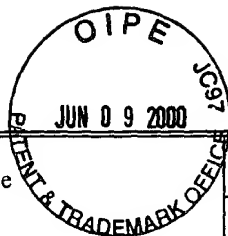
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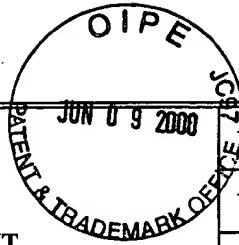
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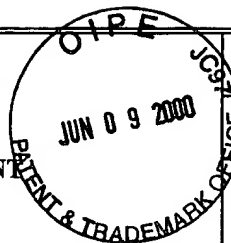
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	5-45636	02/26/93	Japan			Abstract	
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	4-243228	08/31/92	Japan			Abstract	
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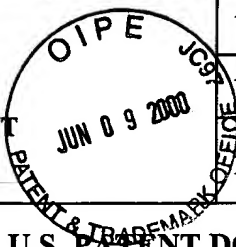
Document Number	Date	Country	Class	Subclass	Translation Yes No
62-7022	01/14/87	Japan			Abstract
63-198024	08/16/88	Japan			Abstract
01-05527	03/02/89	Japan			Abstract
01-120532	05/12/89	Japan			Abstract
02-137819	05/28/90	Japan			Abstract
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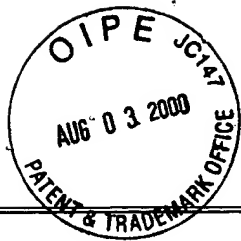
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<del>✓</del>	<del>6-186533</del>	<del>07/08/94</del>	<del>Japan</del>			<del>Abstract</del>	
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<del>✓</del>	<del>6-337405</del>	<del>12/06/94</del>	<del>Japan</del>			<del>Abstract</del>	

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## FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<del>1</del>	<del>6-337418</del>	<del>12/06/94</del>	<del>Japan</del>			<del>Abstract</del>	
<del>1</del>	<del>6-347807</del>	<del>12/22/94</del>	<del>Japan</del>			<del>Abstract</del>	
<del>1</del>	<del>6-160812</del>	<del>06/07/94</del>	<del>Japan</del>			<del>Abstract</del>	
<del>1</del>	<del>5-45636</del>	<del>02/26/93</del>	<del>Japan</del>			<del>Abstract</del>	
<del>1</del>	<del>5-297364</del>	<del>11/12/93</del>	<del>Japan</del>			<del>Abstract</del>	
<del>1</del>	<del>4-243228</del>	<del>08/31/92</del>	<del>Japan</del>			<del>Abstract</del>	
<del>1</del>	<del>4-362918</del>	<del>12/15/92</del>	<del>Japan</del>			<del>Abstract</del>	

## OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)


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Sheet 4 of 5

Form PTO-1449 U.S. Department of Commerce  
(Rev. 8-83) Patent and Trademark Office

Atty. Docket No: 0756-1790

Serial No. 09/059,562

Applicants: Toshimitsu KONUMA, et al.

## INFORMATION DISCLOSURE STATEMENT

Filing Date: April 14, 1998

Group: 2872

(Use several sheets if necessary)

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	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
	62-7022	01/14/87	Japan			Abstract	
	63-198024	08/16/88	Japan			Abstract	
	01-055527	03/02/89	Japan			Abstract	
	01-120532	05/12/89	Japan			Abstract	
	02-137819	05/28/90	Japan			Abstract	
	03-223809	10/02/91	Japan			Abstract	
	0-404 575	12/27/90	EPO			English	

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## FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation Yes No
04-136814	05/11/92	Japan			Abstract

## OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication)


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